

CLAIMS

1. A synthetic resin container having excellent gas barrier property and heat resistance, wherein said container comprises a matrix that is blended with a gas barrier material, and wherein said container is produced by a process including bi-axial stretch blow molding steps performed at least twice, with a heat treatment step therebetween.

2. A synthetic resin container according to claim 1, wherein said matrix comprises polyethylene terephthalate resin, and said gas barrier material comprises at least one member selected from a group consisting of a methaxylylene group-containing polyamide resin, an amorphous polyester resin and an ethylene naphthalate-ethylene terephthalate copolymer resin.

3. A multi-layered synthetic resin container having excellent gas barrier property and heat resistance, wherein said container comprises a base layer having a matrix that is blended with a gas barrier material, and a protection layer having an enriched gas barrier property, and wherein said container is produced by a process including bi-axial stretch blow molding steps performed at least twice, with a heat treatment step therebetween.

4. A synthetic resin container according to claim 3, wherein said matrix comprises polyethylene terephthalate resin, and said gas barrier material comprises at least one member selected from a group consisting of a methaxylylene group-containing polyamide resin, an amorphous polyester resin and an ethylene naphthalate-ethylene terephthalate copolymer resin.

5. A synthetic resin container according to claim 3, wherein said protection layer comprises at least one member selected from a group consisting of a methaxylylene group-containing polyamide resin, an amorphous polyester resin, an ethylene naphthalate-ethylene terephthalate copolymer resin and an ethylene-vinyl alcohol copolymer resin.

6. A method for producing a synthetic resin container having excellent gas barrier property and heat resistance, by bi-axial stretch blow molding steps performed at least twice, with a heat treatment step therebetween, wherein said blow molding steps are performed with a preform consisting of a synthetic resin of which a matrix is blended with a gas barrier material.

7. A method according to claim 6, wherein said preform comprises a multi-layered structural body comprising a base layer having a matrix that is blended with a gas barrier material, and a protection layer having an enriched gas barrier property.

5